

ORD # 7012-70

TECHNICAL REPORT

IDT DISPLAY PROGRAM (U)



25X1

Task Order No. 33

Twenty-Seventh Monthly Letter Report

Month of September 1970



25X1

## TECHNICAL REPORT

Several problems have been detected and corrected during the course of the system testing. The erratic operation of the disc write circuitry was traced to improper timing rather than noise. Between the time when the disc write logic timing was adjusted and the start of system tests, the cables between the logic basket and the disc were lengthened. The increased length shifted the disc write timing to a marginal state. The situation has been corrected.

The hard copy system was originally tested with a step wedge and appeared to be working properly. Tests with a resolution target, however, yielded nonuniform exposures, characterized by a dark area in the center of the picture. The problem was thought to be caused by inability of the TV monitor dc restore circuitry to respond within one frame. The [ ] video amplifier was improved to provide a stable dc level and increased signal level. The ac coupled video amplifier in the TV monitor was removed and the video signal was dc coupled into the interstage amplifier. Both changes were to no avail. Further investigation showed that the dc restore sampling signal was out of phase with the horizontal sync pulse by 9  $\mu$ s causing sampling within the picture format, rather than on the back porch. The cause was traced to a weak and ringing horizontal sync signal. The horizontal sync amplifier was improved and the problem was alleviated.

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STATUS DATA

ORD # 7011-70

IDT DISPLAY PROGRAM (U)

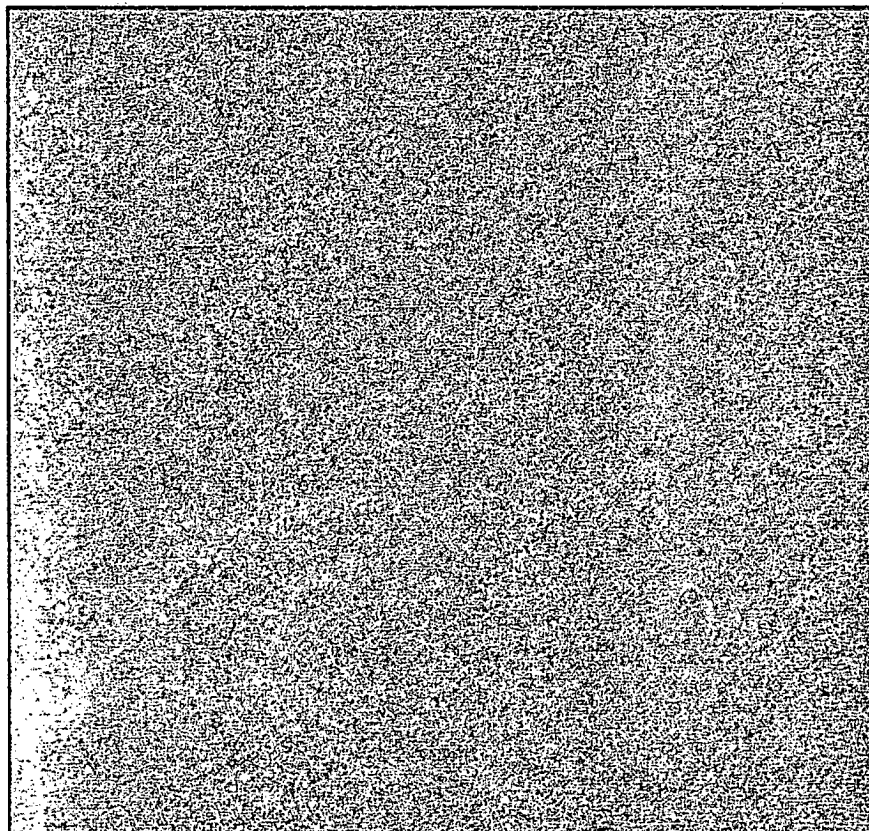


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GROUP-1  
Excluded from automatic downgrading  
and declassification.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE  
NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE  
MEANING OF THE ESPIONAGE LAWS, TITLE 18, U. S. C.,  
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Task No. 33 - 24 June 1968 to 15 Aug. 1970

25X1

Monthly Contract Status ReportFinancial StatusFor Period 29 August 1970 to 30 September 1970

	<u>Target Cost</u>	<u>Target Fee</u>	<u>Target Total</u>	
Amount of Contract:				25X1
Amount of Obligations and/ or Expenditures This Period:				
Amount of Obligations and/ or Expenditures to Date:				25X1
Estimated Funds to Complete:				
Percentage of Funds Expended to Date:	98%			
Percentage of Work Completed to Date:	98%			
1. Is work on schedule?		Yes		
2. Can work be completed in authorized time?		Yes		
3. Can contract be completed with authorized funds?		Yes		

**PROJECT STATUS**

System tests were continued during the last reporting period. Several problems with the photographic system and the disc write logic were corrected.

The remaining tasks are reassembly of several programs, density and transfer function measurement of hard copy imagery, and a functional test of those programs that have been reassembled.

**WORK PLANNED DURING NEXT REPORTING PERIOD**

Complete system testing and prepare for shipment.

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